

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

ATTORNEY'S DOCKET NO.  
TH1615 (US)

# DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled ONE-STEP PRODUCTION OF 1,3-PROPANEDIOL FROM ETHYLENE OXIDE AND SYNGAS WITH A COBALT-IRON CATALYST the specification of which is attached hereto unless the following box is checked:

☒ was filed on May 15, 2002, as United States Application Number or PCT International Application Number 10/146,675 and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 27 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

PRIOR FOREIGN APPLICATION(S)		DAY/MONTH/YEAR FILED
APPLICATION NUMBER	COUNTRY	
APPLICATION NUMBER	COUNTRY	DAY/MONTH/YEAR FILED

Priority  
Not Claimed

☐
☐

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

APPLICATION SERIAL NO.  
60/291,827  
APPLICATION SERIAL NO.

FILING DATE  
May 18, 2001  
FILING DATE

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) or § 365(c) of any PCT International application designating the United States, listed below and insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

APPLICATION SERIAL NO.	FILING DATE	STATUS-PATENTED, PENDING, ABANDONED
APPLICATION SERIAL NO.	FILING DATE	STATUS-PATENTED, PENDING, ABANDONED

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

NAME	ATTORNEY/AGENT	REGISTRATION NUMBER	TELEPHONE NUMBER
Donald F. Haas	Attorney	26,177	(713) 241-3356
Richard F. Lemuth	Attorney	30,081	(713) 241-3716

Revised June 1995

SEND CORRESPONDENCE TO:

(NAME) Donald F. Haas  
c/o Shell Oil Company  
Intellectual Property  
P.O. Box 2463  
Houston, TX 77252-2463

# DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

ATTORNEY'S DOCKET NO.  
TH1615 (US)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

FULL NAME OF SOLE OR FIRST INVENTOR (given name, family name) <b>John Frederick KNIFTON</b>	
INVENTOR'S SIGNATURE <i>John Frederick Knifton</i>	DATE SIGNED <i>July 10, 2002</i>
RESIDENCE <b>14855 Memorial Drive #2501, Houston, Texas 77079</b>	CITIZENSHIP <b>United States</b>
POST OFFICE ADDRESS <b>14855 Memorial Drive #2501, Houston, Texas 77079</b>	

FULL NAME OF SECOND JOINT INVENTOR, IF ANY (given name, family name) <b>Talmadge Gail JAMES</b>	
SECOND INVENTOR'S SIGNATURE	DATE SIGNED
RESIDENCE <b>3346 South Pinebark, Conroe, Texas 77303</b>	CITIZENSHIP <b>United States</b>
POST OFFICE ADDRESS <b>3346 South Pinebark, Conroe, Texas 77303</b>	

FULL NAME OF SOLE OR FIRST INVENTOR (given name, family name) <b>Lynn Henry SLAUGH</b>	
INVENTOR'S SIGNATURE <i>Lynn Henry Slauch</i>	DATE SIGNED <i>July 11, 2002</i>
RESIDENCE <b>13415 Copeland Oaks Road, Houston, Texas 77429</b>	CITIZENSHIP <b>United States</b>
POST OFFICE ADDRESS <b>13415 Copeland Oaks Road, Houston, Texas 77429</b>	

FULL NAME OF FOURTH JOINT INVENTOR, IF ANY (given name, family name) <b>Paul Richard WEIDER</b>	
FOURTH INVENTOR'S SIGNATURE <i>Paul Richard Weider</i>	DATE SIGNED <i>July 10, 2002</i>
RESIDENCE <b>15014 Tramore, Houston, Texas 77083</b>	CITIZENSHIP <b>United States</b>
POST OFFICE ADDRESS <b>15014 Tramore, Houston, Texas 77083</b>	

FULL NAME OF THIRD JOINT INVENTOR, IF ANY (given name, family name) <b>Kevin Dale ALLEN</b>	
THIRD INVENTOR'S SIGNATURE <i>Kevin Dale Allen</i>	DATE SIGNED <i>July 16, 2002</i>
RESIDENCE <b>37225 South Lakeshore Ave, Prairieville, LA 70769</b> KDA	CITIZENSHIP <b>United States</b>
POST OFFICE ADDRESS <b>37225 South Lakeshore Ave, Prairieville, LA 70769</b> KDA	

ATTORNEY'S DOCKET NO..  
TH1615 (US)

# DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

FULL NAME OF SOLE OR FIRST INVENTOR (given name, family name)	
<b>Joseph Broun POWELL</b>	
INVENTOR'S SIGNATURE	DATE SIGNED
<i>Joseph Broun Powell</i>	July 11, 2002
CITIZENSHIP	
RESIDENCE	United States
10506 Normont Drive, Houston, Texas 77070	
POST OFFICE ADDRESS	
10506 Normont Drive, Houston, Texas 77070	

FULL NAME OF SECOND JOINT INVENTOR, IF ANY (given name, family name)	
SECOND INVENTOR'S SIGNATURE	DATE SIGNED
CITIZENSHIP	
RESIDENCE	
POST OFFICE ADDRESS	

FULL NAME OF THIRD JOINT INVENTOR, IF ANY (given name, family name)	
THIRD INVENTOR'S SIGNATURE	DATE SIGNED
CITIZENSHIP	
RESIDENCE	
POST OFFICE ADDRESS	

FULL NAME OF FOURTH JOINT INVENTOR, IF ANY (given name, family name)	
FOURTH INVENTOR'S SIGNATURE	DATE SIGNED
CITIZENSHIP	
RESIDENCE	
POST OFFICE ADDRESS	

FULL NAME OF FIFTH JOINT INVENTOR, IF ANY (given name, family name)	
FIFTH INVENTOR'S SIGNATURE	DATE SIGNED
CITIZENSHIP	
RESIDENCE	
POST OFFICE ADDRESS	

# DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

ATTORNEY'S DOCKET NO.  
TH1615 (US)

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled ONE-STEP PRODUCTION OF 1,3-PROPANEDIOL FROM ETHYLENE OXIDE AND SYNGAS WITH A COBALT-IRON CATALYST the specification of which is attached hereto unless the following box is checked:



was filed on May 15, 2002, as United States Application Number or PCT International Application Number 10/146,675 and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 27 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

## PRIOR FOREIGN APPLICATION(S)

APPLICATION NUMBER	COUNTRY	DAY/MONTH/YEAR FILED
APPLICATION NUMBER	COUNTRY	DAY/MONTH/YEAR FILED

Priority  
Not Claimed

☐  
  
☐

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

APPLICATION SERIAL NO. 60/291,827	FILING DATE May 18, 2001
APPLICATION SERIAL NO.	FILING DATE

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) or § 365(c) of any PCT International application designating the United States, listed below and insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

APPLICATION SERIAL NO.	FILING DATE	STATUS-PATENTED, PENDING, ABANDONED
APPLICATION SERIAL NO.	FILING DATE	STATUS-PATENTED, PENDING, ABANDONED

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

NAME	ATTORNEY/AGENT	REGISTRATION NUMBER	TELEPHONE NUMBER
Donald F. Haas	Attorney	26,177	(713) 241-3356
Richard F. Lemuth	Attorney	30,081	(713) 241-3716

Revised June 1995

## SEND CORRESPONDENCE TO:

(NAME) Donald F. Haas  
c/o Shell Oil Company  
Intellectual Property  
P.O. Box 2463  
Houston, TX 77252-2463

**DECLARATION AND POWER OF  
ATTORNEY FOR PATENT APPLICATION**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

FULL NAME OF SOLE OR FIRST INVENTOR (given name, family name) <b>John Frederick KNIFTON</b>	
INVENTOR'S SIGNATURE	DATE SIGNED
RESIDENCE <b>14855 Memorial Drive #2501, Houston, Texas 77079</b>	CITIZENSHIP <b>United States</b>
POST OFFICE ADDRESS <b>14855 Memorial Drive #2501, Houston, Texas 77079</b>	

FULL NAME OF SECOND JOINT INVENTOR, IF ANY (given name, family name) <b>Talmadge Gail JAMES</b>	
SECOND INVENTOR'S SIGNATURE <i>Talmadge Gail James</i>	DATE SIGNED <b>7/16/02</b>
RESIDENCE <b>3346 South Pinebark, Conroe, Texas 77303</b>	CITIZENSHIP <b>United States</b>
POST OFFICE ADDRESS <b>3346 South Pinebark, Conroe, Texas 77303</b>	

FULL NAME OF SOLE OR FIRST INVENTOR (given name, family name) <b>Lynn Henry SLAUGH</b>	
INVENTOR'S SIGNATURE	DATE SIGNED
RESIDENCE <b>13415 Copeland Oaks Road, Houston, Texas 77429</b>	CITIZENSHIP <b>United States</b>
POST OFFICE ADDRESS <b>13415 Copeland Oaks Road, Houston, Texas 77429</b>	

FULL NAME OF FOURTH JOINT INVENTOR, IF ANY (given name, family name) <b>Paul Richard WEIDER</b>	
FOURTH INVENTOR'S SIGNATURE	DATE SIGNED
RESIDENCE <b>15014 Tramore, Houston, Texas 77083</b>	CITIZENSHIP <b>United States</b>
POST OFFICE ADDRESS <b>15014 Tramore, Houston, Texas 77083</b>	

FULL NAME OF THIRD JOINT INVENTOR, IF ANY (given name, family name) <b>Kevin Dale ALLEN</b>	
THIRD INVENTOR'S SIGNATURE	DATE SIGNED
RESIDENCE <b>20530 Serrington Drive, Katy, Texas 77449</b>	CITIZENSHIP <b>United States</b>
POST OFFICE ADDRESS <b>20530 Serrington Drive, Katy, Texas 77449</b>	

# DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

ATTORNEY'S DOCKET NO.  
TH1615 (US)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

FULL NAME OF SOLE OR FIRST INVENTOR (given name, family name)	
<b>Joseph Broun POWELL</b>	
INVENTOR'S SIGNATURE	DATE SIGNED
RESIDENCE	CITIZENSHIP
<b>10506 Normont Drive, Houston, Texas 77070</b>	<b>United States</b>
POST OFFICE ADDRESS	
<b>10506 Normont Drive, Houston, Texas 77070</b>	

FULL NAME OF SECOND JOINT INVENTOR, IF ANY (given name, family name)	
SECOND INVENTOR'S SIGNATURE	DATE SIGNED
RESIDENCE	CITIZENSHIP
POST OFFICE ADDRESS	

FULL NAME OF THIRD JOINT INVENTOR, IF ANY (given name, family name)	
THIRD INVENTOR'S SIGNATURE	DATE SIGNED
RESIDENCE	CITIZENSHIP
POST OFFICE ADDRESS	

FULL NAME OF FOURTH JOINT INVENTOR, IF ANY (given name, family name)	
FOURTH INVENTOR'S SIGNATURE	DATE SIGNED
RESIDENCE	CITIZENSHIP
POST OFFICE ADDRESS	

FULL NAME OF FIFTH JOINT INVENTOR, IF ANY (given name, family name)	
FIFTH INVENTOR'S SIGNATURE	DATE SIGNED
RESIDENCE	CITIZENSHIP
POST OFFICE ADDRESS	